

## SEQUENCE LISTING

<110> Dade Behring Marburg GmbH

<120> Novel surface protein (HBsAg) variant of the hepatitis B Virus

<130> MA 1251

<150> DE 10328139.8

<151> 2003-06-20

<160> 34

<170> PatentIn version 3.2

<210> 1

<211> 462

<212> DNA

<213> Hepatitis B virus

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gggggaacta ccgtgtgtct tggccaaaat tcgcagtccc caacacctcaa tcactcacca 60

acctccctgtc ctccaaacttg tcctggttat cgctggatgt gtctgcggcg ttttatcatc 120

ttccctttca tcctgctgct atgcctcatc ttcttggttgg ctcttctgga ctatcaaggt 180

atattgccccg tttgtcctct aattccagga tctgcaatca acaacagggg acaatgcaaa 240

acctgcacga ctactgctca cgaaacctct atgtatccct actgttgcgtg taccacaaacct 300

tcggacggaa attgcacctg tattccatc ccatcatcct gggctttcgg aaaattccta 360

tgggagtggg cctcagcccg ttttcctgg ctcagttac tagttccctt tgttcagtgg 420

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<211> 84

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tctgcaatca acaacagggg acaa 84

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<211> 144

<212> DNA

<213> Hepatitis B virus

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atgtatccct actgttgcgtg tacc 144

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tgcaaa 66

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<210> 6  
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<212> DNA  
<213> Hepatitis B virus

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gcaatcaaca acaggggaca atgcaaa 27

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<212> DNA  
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<210> 10  
<211> 81  
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<210> 12  
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<212> PRT  
<213> Hepatitis B virus

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Gly Gly Thr Thr Val Cys Leu Gly Gln Asn Ser Gln Ser Pro Thr Ser  
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Asn His Ser Pro Thr Ser Cys Pro Pro Thr Cys Pro Gly Tyr Arg Trp  
20 25 30

Met Cys Leu Arg Arg Phe Ile Ile Phe Leu Phe Ile Leu Leu Cys  
35 40 45

Leu Ile Phe Leu Leu Ala Leu Leu Asp Tyr Gln Gly Ile Leu Pro Val  
50 55 60

Cys Pro Leu Ile Pro Gly Ser Ala Ile Asn Asn Arg Gly Gln Cys Lys  
65 70 75 80

Thr Cys Thr Thr Thr Ala His Gly Thr Ser Met Tyr Pro Tyr Cys Cys  
85 90 95

Cys Thr Lys Pro Ser Asp Gly Asn Cys Thr Cys Ile Pro Ile Pro Ser  
100 105 110

Ser Trp Ala Phe Gly Lys Phe Leu Trp Glu Trp Ala Ser Ala Arg Phe  
115 120 125

Ser Trp Leu Ser Leu Leu Val Pro Phe Val Gln Trp Phe Val Gly Leu  
130 135 140

Ser Pro Thr Val Trp Leu Ser Val Ile Trp  
145 150

<210> 13  
<211> 28

<212> PRT

<213> Hepatitis B virus

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Phe Leu Leu Ala Leu Leu Asp Tyr Gln Gly Ile Leu Pro Val Cys Pro  
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Leu Ile Pro Gly Ser Ala Ile Asn Asn Arg Gly Gln  
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<211> 48

<212> PRT

<213> Hepatitis B virus

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20 25 30

Thr Thr Thr Ala His Gly Thr Ser Met Tyr Pro Tyr Cys Cys Cys Thr  
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<212> PRT

<213> Hepatitis B virus

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Gln Gly Ile Leu Pro Val Cys Pro Leu Ile Pro Gly Ser Ala Ile Asn  
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Asn Arg Gly Gln Cys Lys  
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<210> 16

<211> 40

<212> PRT

<213> Hepatitis B virus

<400> 16

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Met Tyr Pro Tyr Cys Cys Cys Thr

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<400> 17

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<210> 18  
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<400> 18

Ile Pro Gly Ser Ala  
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<210> 19  
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<400> 19

Pro Gly Ser Ala Ile  
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<210> 20  
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<400> 20

Gly Ser Ala Ile Asn  
1 5

<210> 21  
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<212> PRT  
<213> Hepatitis B virus

<400> 21

Ser Ala Ile Asn Asn  
1 5

<210> 22  
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<212> PRT  
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<400> 22

Ile Asn Asn Arg Gly  
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<210> 23

<211> 5

<212> PRT

<213> Hepatitis B virus

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Asn Asn Arg Gly Gln  
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<210> 24

<211> 5

<212> PRT

<213> Hepatitis B virus

<400> 24

Asn Arg Gly Gln Cys  
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<210> 25

<211> 5

<212> PRT

<213> Hepatitis B virus

<400> 25

Arg Gly Gln Cys Lys  
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<210> 26

<211> 7

<212> PRT

<213> Hepatitis B virus

<400> 26

Ala Ile Asn Asn Arg Gly Gln  
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<210> 27

<211> 9

<212> PRT

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Ala Ile Asn Asn Arg Gly Gln Cys Lys  
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<210> 28

<211> 16

<212> PRT  
<213> Hepatitis B virus

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Ala Ile Asn Asn Arg Gly Gln Cys Lys Thr Cys Thr Thr Ala His  
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<210> 29

<211> 27

<212> PRT

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Ala Ile Asn Asn Arg Gly Gln Cys Lys Thr Cys Thr Thr Ala His  
1 5 10 15

Gly Thr Ser Met Tyr Pro Tyr Cys Cys Cys Thr  
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<210> 30

<211> 20

<212> PRT

<213> Hepatitis B virus

<400> 30

Cys Lys Thr Cys Thr Thr Ala His Gly Thr Ser Met Tyr Pro Tyr  
1 5 10 15

Cys Cys Cys Thr  
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<210> 31

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<212> DNA

<213> Artificial Sequence

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<223> Primer 1

<400> 31

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22

<210> 32

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer 2

<400> 32

tatacccaaa gacaaaagaa aattgg

26

<210> 33  
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<220>  
<223> Primer 3

<400> 33  
gactcgtgg gggacttctct c

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<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer 4

<400> 34  
tacagacttg gcccccaata cc

22